|   | .Index of Claims |          |              |    |          |          |  |          |          |              |           |       |            |              | Application/Control No. |           |          |          |              |                |          |          |           |          | Applicant(s)/Patent under Reexamination |            |                   |          |          |           |              |          |           |                 |           |   |
|---|------------------|----------|--------------|----|----------|----------|--|----------|----------|--------------|-----------|-------|------------|--------------|-------------------------|-----------|----------|----------|--------------|----------------|----------|----------|-----------|----------|---|------------|-------------------|----------|----------|-----------|--------------|----------|-----------|-----------------|-----------|---|
|   |                  |          |              |    |          |          |  |          |          |              |           |       |            |              | 10/716,749              |           |          |          |              |                |          |          |           |          |   | KIM ET AL. |                   |          |          |           |              |          |           |                 |           |   |
|   |                  |          |              |    |          |          |  |          |          |              |           |       |            |              |                         | Examiner  |          |          |              |                |          |          |           |          | 1                                       | Art Unit   |                   |          |          |           |              |          |           |                 |           |   |
|   | TE               |          |              |    |          |          |  |          |          |              |           |       |            |              | TRONG PHAN              |           |          |          |              |                |          |          |           | 2827     |   |            |                   |          |          |           |              |          |           |                 |           |   |
|   |                  |          | 1            | Re | ejec     | tec      | 4  |          | [.       | -[           | (         | Th    | rou<br>Ca  | gh n<br>ncel | um                      | era       | ıl)      |          | N Non-Electe |                |          | cte      | d         |          | A                                       | Appeal     |                   |          |          |           |              |          |           |                 |           |   |
|   | = Allov          |          |              |    |          |          | ed                                       |          |          | 1.           |           |       | Restricted |              |                         |           |          | 1        |              | I Interference |          |          | e         |          | 0                                       | Objected   |                   |          |          |           |              |          |           |                 |           |   |
| 1 | Claim Date       |          |              |    |          |          |  |          |          |              | _         | Claim |            |              |                         |           | _        |          | Date         |                |          | ٦        | Г         | Clai     | m                                       | Date       |                   |          |          |           |              |          | ٦         |                 |           |   |
|   | Cla              |          |              |    | П        | Ť        | ate<br>T                                 | Ŧ        | Т        | Т            | ┪         | t     |            |              |                         | Ī         | Т        | Ť        | T            | Т              |          |          |           |          |   | П          | <b></b>           |          |          |           |              | Т        | T         | 7               |           |   |
|   | Final            | Original | 6/9/05       |    | ٠        |          |  |          |          |              |           |       | Final      | Original     |                         |           |          |          |              |                |          |          |           |          | Final                                   | Original   |                   |          |          |           |              |          |           | 1               |           |   |
|   |                  |          | v            |    |          | 1        |  | 1        | 1        | 士            | ╛         | Ė     |            | 51           |                         | $\exists$ | コ        | コ        | #            | #              | #        | #        | コ         | F        |   | 101        |                   | 7        | #        | 7         | 7            | 7        | 7         | 1               | 7         |   |
|   |                  | 3        | Ħ            |    | Н        | +        | +  | +        | +        | +            | 4         | -     | _          | 52<br>53     | Н                       |           | $\dashv$ | $\dashv$ | +            | +              | +        | +        | $\dashv$  | $\vdash$ |   | 102<br>103 | ┟┤                | $\pm$    | $\pm$    | $\dagger$ | $\pm$        | $\pm$    | 士         | 士               | 1         |   |
|   |                  |          | 扗            |    |          | 士        | $\pm$                                    | 士        | 士        | 士            | $\exists$ | þ     |            | 54           |                         |           | 二        | コ        | #            | 1              | 丰        | 1        | $\exists$ | F        |   | 104        | П                 | 4        | 4        | 7         | 7            | 7        | Ŧ         | 1               | $\exists$ |   |
|   |                  | 5        | $oxed{\Box}$ | _  |          | $\dashv$ | +  | +        | +        | $\dashv$     | 4         | ŀ     |            | 55<br>56     | Н                       | $\dashv$  | $\dashv$ | $\dashv$ | +            | +              | ╅        | +        | $\dashv$  | ┢        |   | 105<br>106 | Н                 | +        | +        | ╅         | 十            | +        | +         | +               | $\dashv$  |   |
|   |                  | <u>6</u> | H            | -  | H        | 寸        | 十  | $\dashv$ | +        | $\dashv$     | 1         | t     |            | 57           |                         |           |          |          |              | 士              |          | 1        | 1         |          |   | 107        |                   | コ        | 1        | 1         | $\downarrow$ | 7        | 7         | 7               | $\Box$    |   |
|   |                  | 8        | П            |    | П        | $\Box$   | $\Box$                                   | $\Box$   | $\Box$   | 7            | 7         | F     |            | 58<br>59     | $\vdash$                |           | Н        | -        | +            | +              | +        | +        | 4         | F        | $\dashv$                                | 108<br>109 | ╀┦                | $\dashv$ | +        | +         | +            | +        | +         | +               | ┥         |   |
|   |                  | 9<br>10  | ₩            | ┝  | $\vdash$ | $\dashv$ | $\dashv$                                 | $\dashv$ | ┪        | $\dashv$     | $\dashv$  | ŀ     |            | 60           | Н                       | =         | $\dashv$ | ᅥ        | +            | $\dashv$       | $^{+}$   | $\pm$    |           | t        |   | 110        |                   | 士        | $\pm$    | $\exists$ | 士            | 1        | 士         | 士               | _         |   |
|   |                  | Ü        | 且            |    |          |          |  | $\Box$   | コ        | 耳            | コ         | Į     |            | 61           |                         |           |          |          | $\Box$       | $\Box$         | $\Box$   | 4        | 7         | F        |   | 111        | $\Box$            | 4        | 4        | 4         | 4            | 4        | 4         | +               | 4         |   |
|   |                  | 12       | П            | L  | Н        |          | 4  | 4        | 4        | 4            | 4         | ŀ     |            | 62<br>63     | H                       | Н         |          |          | -            | +              | +        | +        | $\dashv$  | ŀ        | $\dashv$                                | 112<br>113 |                   | $\dashv$ | ┽        | $\dashv$  | +            | ╅        | ╅         | +               | ┥         |   |
|   | <del></del>      | 13<br>14 | ╫            | ┝  | Н        | $\dashv$ | $\dashv$                                 | ┪        | ┪        | ┪            | ᅱ         | ŀ     |            | 64           |                         |           | Н        |          |              |                | $\perp$  | 士        | _         | t        | 二                                       | 114        |                   |          | コ        | ⇉         |              | コ        | コ         | $\perp$         |           |   |
|   |                  | 15       | Ш            | 匚  |          |          |  |          | $\Box$   | コ            | $\Box$    | ļ     |            | 65           |                         |           |          |          | $\Box$       |                | 4        | 7        | 7         | F        |   | 115<br>116 |                   | _        | +        | +         | +            | +        | ┥         | +               | $\dashv$  |   |
|   |                  | 16       | #            | ┞  | Н        |          | 4  | -        | -        | $\dashv$     | 4         | -     |            | 66<br>67     | ┝                       | -         | -        | $\dashv$ | $\dashv$     | +              | +        | ╁        | $\dashv$  | ŀ        |   | 117        | +                 | $\dashv$ | ┪        | ┪         | +            | +        | +         | 1               | j         |   |
|   |                  | 17<br>18 | H            | ┝  | Н        | H        | $\dashv$                                 | ┪        | 1        | ┪            | ┪         | ŀ     |            | 68           |                         |           |          |          | ╛            |                | 1        | #        | $\exists$ | Į        |   | 118        |                   |          | 1        | $\Box$    | 1            | 1        | $\Box$    | $\Box$          | $\Box$    |   |
|   |                  | 19       | #            |    |          |          | $\Box$                                   | $\Box$   | $\Box$   |              | $\beth$   | Ī     |            | 69           | L                       |           |          | Н        | _            | $\dashv$       | 4        | 4        | 4         | ŀ        |   | 119<br>120 |                   | $\vdash$ | -        |           | +            | +        | -         | +               | ┥         |   |
|   | $\vdash$         | 20 21    | H            | ╀  | H        | Н        | $\dashv$                                 | $\dashv$ | $\dashv$ | $\dashv$     | $\dashv$  | ŀ     |            | 70<br>71     | H                       | ┞╌        | -        | Н        | $\dashv$     | ┪              | ┪        | +        | ┪         | ŀ        |   | 121        | Ι.                |          |          | ╛         | 1            | ╛        |           |                 | ゴ         |   |
|   | H                | á        | H            |    |          |          |  |          |          |              |           | Ì     |            | 72           |                         |           |          | П        |              | $\Box$         | $\Box$   | $\Box$   | $\Box$    | F        |   | 122        |                   | Ц        | 4        | _         | 4            |          |           | 4               | 4         |   |
|   |                  | 23       | П            | L  |          |          | П  | $\dashv$ |          |              | 4         | -     |            | 73<br>74     | ┡                       | -         | ⊢        | Н        | $\dashv$     | $\dashv$       | -        | +        | $\dashv$  | ŀ        |   | 123<br>124 |                   | H        | ┥        | ┨         | $\dashv$     | $\dashv$ | +         | 十               | ᅥ         |   |
|   |                  | (Z)      | H            | ╀  | ⊢        | Н        | H  | $\dashv$ | -        | $\dashv$     | ᅱ         | ŀ     |            | 75           | 十                       | $\vdash$  | H        | Н        |              | $\dashv$       | 7        | 1        | ╛         | t        |   | 125        |                   |          | ⇉        |           |              |          |           | ゴ               | コ         |   |
|   |                  | 26       |              | T  |          |          |  |          |          | $\Box$       | $\Box$    | I     |            | 76           |                         | L         |          |          |              |                | $\Box$   | $\dashv$ | $\exists$ | F        |   | 126<br>127 | -                 | Н        | $\dashv$ | $\dashv$  | $\dashv$     | 4        | 4         | -               | $\dashv$  |   |
|   |                  | 27       | 4            | +  | $\perp$  | $\sqcup$ | $\vdash \downarrow$                      | $\vdash$ | Н        | Н            | $\dashv$  | -     |            | 77<br>78     | ╀                       | ╀         | -        | $\vdash$ | H            | $\dashv$       | -        | $\dashv$ | $\dashv$  | +        |   | 127        |                   | Н        | $\dashv$ | $\dashv$  | $\dashv$     | $\dashv$ | ┪         | +               | ᅦ         |   |
|   | -                | 28<br>29 | П            | +  | t        | Н        | H  | Н        | Н        | H            | ㅓ         |       |            | 79           |                         | L         |          |          |              |                |          |          |           | į        |   | 129        |                   |          | $\Box$   |           |              | $\Box$   | $\exists$ | $\Box$          | $\Box$    |   |
|   |                  | 30       | Į            | 工  |          |          |  |          |          | Ц            |           |       |            | 80           | F                       | F         | $\Box$   |          | Ш            | Ц              | -        | 4        | 4         | -        |   | 130<br>131 |                   | Н        | $\dashv$ | -         | $\vdash$     | -        | -         | $\dashv$        | $\dashv$  |   |
|   |                  | 31<br>32 |              | ╀  | ╀        | -        | Н  | Н        |          | Н            | $\dashv$  |       |            | 81           | +-                      | +         | ╁        | $\vdash$ | Н            | Н              | $\dashv$ | ┥        | $\dashv$  | ŀ        |   | 132        |                   | H        |          |           |              | ᅥ        |           |                 | ╛         |   |
|   | $\vdash$         | 33       |              | +  | T        | T        | $\vdash$                                 | $\vdash$ |          | ᅥ            |           |       |            | 83           |                         | 上         | 匚        |          |              | 口              |          | 耳        | コ         | Į        |   | 133        |                   |          |          |           |              | $\Box$   | $\Box$    | $\Box$          | 口         |   |
|   |                  | 34       | I            | I  | L        |          | $\Box$                                   |          |          | П            |           |       |            | 84           |                         | 1         | 1        | -        | Н            | Н              | Н        | -        | $\dashv$  | ŀ        |   | 134        |                   | $\vdash$ | $\vdash$ | -         | $\vdash$     | $\dashv$ |           |                 | $\dashv$  |   |
|   | -                | 35<br>36 |              | ╁  | ╀        | $\vdash$ | Н  | H        | ┝        | Н            | -         |       |            | 85<br>86     |                         | ۲         | $\vdash$ | +-       | H            | Н              | H        | _        | $\dashv$  | 1        |   | 136        |                   |          |          |           | 廿            |          |           |                 |           | • |
|   |                  | 37       | _            | 士  | 士        |          |  |          |          | 口            |           |       |            | 87           | T                       | L         | L        | L        |              |                |          | $\Box$   |           | ſ        |   | 137        |                   | $\Box$   |          |           | П            | $\Box$   |           | $\dashv$        | $\dashv$  |   |
|   |                  | 38       |              | T  | F        | F        |  |          | $\vdash$ | $\sqcup$     | $\dashv$  |       | <u> </u>   | 88<br>89     |                         | ╀         | ╀        | ╀        | -            | $\vdash$       | Н        |          | $\dashv$  | -        |   | 138        |                   | -        | Н        |           | H            | $\dashv$ | Н         | $\vdash$        | Н         |   |
|   | $\vdash$         | 39<br>40 |              | ╁  | 十        | ╁        | Н  | Н        | Ι-       |              | Н         |       | $\vdash$   | 90           |                         | $\pm$     |          | T        |              |                | Ħ        |          |           |          |   | 140        | $\overline{\Box}$ |          |          |           |              |          |           | $\square$       | $\square$ |   |
|   |                  | 41       |              | 1  | I        |          |  |          |          |              |           |       |            | 91           |                         | L         | F        | F        | $\Box$       |                |          |          | $\dashv$  |          |   | 141        |                   | ┢        | $\vdash$ | -         | $\vdash$     |          | Н         | $\vdash \vdash$ | Н         |   |
|   |                  | 42       |              | +  | ╀        | ╀        | $\vdash$                                 | -        | -        | $\vdash$     | Н         |       |            | 92           |                         | +         | ╁        | $\vdash$ | $\vdash$     | $\vdash$       | Н        | Н        | $\vdash$  |          | _                                       | 143        |                   | t        |          |           |              |          |           |                 |           | • |
|   |                  | 44       |              | 1  | İ        | $\perp$  |  |          |          |              |           |       |            | 94           |                         |           | 1        | L        |              |                |          |          | 口         |          |   | 144        |                   | L        |          |           | П            |          | F         | П               | Н         |   |
|   |                  | 45       |              | T  | F        | F        |  |          | 匚        | $\vdash$     |           |       |            | 95<br>96     |                         | ╀         | ╀        | ╀        | ╀            | ⊢              | H        | $\vdash$ | Н         |          | <del> </del>                            | 149        |                   | ╁        | H        | ┝         | Н            | $\vdash$ | $\vdash$  | Н               | Н         |   |
|   | -                | 45       | ~            | +  | ╁        | +        | $\vdash$                                 | $\vdash$ | $\vdash$ | ╁╴           | $\vdash$  | 1     | 1          | 97           |                         | $\pm$     | T        | t        | L            |                |          |          | Ħ         |          |   | 147        | 7                 |          |          |           |              |          |           |                 |           |   |
|   |                  | 48       |              | 土  | 士        | 上        |  |          |          |              |           | 1     |            | 98           |                         | I         | L        | I        | Г            | Г              |          |          | П         |          |   | 14         |                   | +        | F        | H         | -            | -        | $\vdash$  | Н               | H         |   |
|   |                  | 49       |              | Ţ  | 丰        | Į        | $oldsymbol{oldsymbol{oldsymbol{arphi}}}$ | F        | L        | <del> </del> | H         | 1     | <u> — </u> | 99           |                         | +         | +        | +        | ╀            | <b>}</b> −     | $\vdash$ | $\vdash$ | Н         |          | ├                                       | 149        |                   | ╁        | $\vdash$ | $\vdash$  | -            | $\vdash$ | +         | Н               |           |   |